



PROJECT ENGINEER . . . Hand polishing an aluminum front wheel for Craig Breedlove's race car "American Spirit" is Margie Smith who serves as project engineer and manager for the developing of the famous vehicle.

Women's World

Women, liberated from the home, seek careers in the entertainment field, medicine, outer space, politics and automotive racing. It is in this last category one must be forewarned and forearmed as to the subtlety of the dedicated female racing aficionado.

An advance state of this condition of fascination with exhaust fumes and the sound of piston engines may be found in a female form with the title "Project Engineer" at Craig Breedlove's racing compound in Torrance. The lady in question, is quite well versed on metal building materials—she and Craig Breedlove selected Harvey Aluminum as their exclusive source of supply.

Margie Smith, girl project engineer, has from earliest years been addicted to the auto mechanic's workshop, tools of the trade, and particularly the intoxicating fumes of the internal combustion engine. This young lady is perhaps the only female race car designer in existence, and such a rare creature is displaying even rarer talents in the design of fabrication of Breedlove's newest assault on existing speed records, namely Class B, C, and D.

Not satisfied with the results of her latest creation, she now has taken on the additional title of project manager which means even greater responsibilities for the total success of Breedlove's rear engine American Spirit.

Miss Smith, soft spoken and unassuming, is the second woman to graduate from the University of Denver with a Bachelor's degree in mechanical engineering. While other girls plastered their walls with photos of screen idols and rock 'n roll stars, Margie had eyes only for the silhouettes of racing cars and the intricacies of automobile body design.

After Craig Breedlove laid out the basic concept of the car, talented, pint-sized Margie Smith detailed the design. In order to further insure an application of the most up-to-date theories in aerodynamics, she brought in Paul Lamar, aerodynamicist, long associated with Jim Hall and the famous Chaparral.

The challenge facing the builders was to keep the size of the vehicle small, get everything in and functioning properly, and provide the greatest power-to-weight ratio possible.

In consultation with Harvey Aluminum Vice President Gib Moudry, special metals, and Mr. Lawrence, the Breedlove team selected certain Harvey automotive alloys in titanium and aluminum. These metals would give the car great lightness and all the strength necessary. The high speeds involved in this project resulted in gear train difficulties.

Breedlove, Smith and Lamar, with the help of T. W. Khiralla, gear consulting engineer, rebuilt the rear end with a completely hand-tailored gear train. The two-wheel drive car design resulted in stability becoming a problem. Taking a page from Chaparral history, mechanical stability was insured by using two wing sections. Besides enclosing the rear axle, the wing sections put a downforce on the drive wheels promoting stability. A slight lift on the nose of the car added the final necessary touch.

Further, as part of the concept of using only two rear drive wheels, the center of gravity was located behind the midpoint of the wheel base. The primary reason for the two-wheel drive car is the limited land space at the Bonneville Salt Flats where Breedlove hopes to set still another record. Margie Smith's design makes for a simpler, lighter vehicle with less frontal area required. With the rear engine, two-wheel drive, two wing sections, and high acceleration capabilities, it may well be one young lady's dream of writing her name in racing history will be accomplished.



DANNY DANIEL

Buckeyes Have 28 Lettermen

USC football coach John McKay will probably make several defensive changes for the Buckeyes in the Rose Bowl, he said Wednesday.

McKay declined to be specific about the switches but indicated the changes would be designed to shore up weaknesses exploited by Notre Dame in a season-ending 21-21 tie with the Trojans.

The only possible change would be at flanker, where veteran Jim Lawrence has returned to fitness after missing the last three games of the season with a broken clavicle.

"I'm inclined to start my seniors in a game such as the Rose Bowl," said McKay.

John is not dazed by Ohio State Coach Woody Hayes' talk of having a sophomore team.

"I notice Woody has 28 lettermen on his 50-man squad he brought here," said McKay.

"All those guys on the Ohio State team can't be sophomores," said the Trojan boss. He concluded, "Remember, we have only 14 lettermen."

New Activities Announced for Gardena Center

Two new sports activities will be offered youngsters this winter at Rosecrans Recreation Center, 840 W. 149th St., Gardena.

Tumbling and wrestling will be available for 6-8-year-old youngsters every Thursday at 3:30 p.m. at the Los Angeles City Recreation and Parks facility, according to Roger Williams, center director.

The basic skills of wrestling and tumbling will be taught with emphasis towards municipal games development, Williams said.

The skills and safety of archery will be taught boys 9 and over at 4 p.m. every Friday.

Warriors Play at Glendale

Following a third place finish in its own Norm Verry Memorial Basketball Tournament, El Camino College is competing in the Sam Barry Basketball Tourney which got under way yesterday at Glendale College.

The Sam Barry Tourney is a three-day event. Winning the Norm Verry Tournament was San Diego City College which defeated L.A. Pierce, 69-67.

At halftime San Diego held a slim 39-35 lead. Within the first two minutes of the second half, Pierce gained the lead and kept it until the last two minutes when SDC reversed the situation with a 66-65 edge.

Pierce tied the score with only 44 seconds remaining. However, three one-and-one situations and two completed free throws allowed SDC to capture the crown.

While Pierce settled for second best, El Camino whipped L.A. Valley, 86-72, for third place and Trade Tech won the consolation championship with a 70-55 victory over Southwest.

SDCC's Johnny Otis was named MVP of the tournament to head a five-man all-tournament squad of forward Ronnie Byrd of Southwest, centers Danny Daniel of El Camino, Tom Covert of Trade Tech and Jim Mossel of Pierce, and guard Floyd Qurtman of Pierce.

Peewee Basketball Organized

Boys in the Torrance area can sign up for Normandale Recreation Center's Pee Wee (ages 7 to 9) basketball league to be organized this winter.

Registration will continue through January at 2240 S. Halldale Ave., Tom George, recreation director said. Team selection and tryouts will be announced to those who

register, George said. Facilities and jerseys will be furnished by the recreation department. Team trophies are awarded at the end of the league season.



THREE-CAR PUZZLE—Moving around on the outside, Eddie Sauer (No. 31) is able to avoid a Figure 8 collision between Don Dinger's Car No. 74 and another auto mostly hidden. Sauer will start another year of racing Sunday afternoon at Ascot Park.

El Camino Holds Wrestling Event

Six top notch junior college wrestling teams will convene at El Camino College today and Saturday for the National Junior College Association Dual Tournament.

El Camino will join forces with Bakersfield and Santa Ana College to challenge nationally ranked Arizona Western, Big Bend Community College of Washington and Phoenix City College.

Competition starts today at 7:30 p.m. The tournament will be split into two sessions Saturday — one beginning at 1 p.m. and the other at 7:30 p.m.

"The tournament is held in different sections of the nation

every year," Dave Hengsteler, El Camino wrestling coach stated.

While all other junior colleges belong to the NJCA, California has its own program which includes sectionals and a state tournament.

Arizona Western, Big Bend and Phoenix are among the nation's best junior college wrestling teams. Phoenix is the 1968 defending national champ. Arizona Western is a fifth place finisher. Big Bend won the championship for the state of Washington last year.

The three California colleges finished in the top ten last year as El Camino took fourth, Bak-

ersfield placed fifth and Santa Ana settled for eighth.

Competition will be in weight classes ranging from 115 to 191 pounds. The tournament will be conducted on three mats.

Matches scheduled this evening include El Camino vs. Big Bend, Bakersfield vs. Phoenix and Santa Ana vs. Arizona Western.

Saturday's afternoon bout has El Camino against Arizona Western, Bakersfield against Big Bend, and Santa Ana against Phoenix. In the evening El Camino will finish with Phoenix, while Bakersfield tangles with Arizona Western and Santa Ana takes on Big Bend.

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Gun Control Law Gets Explanation

Sportsmen and hunters concerned over the effect of the New Federal Gun Control Law on possession and sales of firearms were given an explanation of the law's implications by Alfred P. Sutlick, alcohol and tobacco tax representative of the Internal Revenue Service.

Purchasing or owning an ordinary gun used for hunting, target shooting or other lawful purpose will not subject weapons fanciers to any unreasonable restrictions, Sutlick said.

"The Gun Control Act of 1968 prohibits certain persons from buying and possessing weapons and ammunition, and limits the sale thereof," Sutlick said. He summarized the prohibitions on possession of firearms to include felons, dishonorably discharged veterans, aliens illegally in the U.S., mental incompetents and former citizens who renounced citizenship.

Sutlick pointed out other exclusions that apply to persons under 18 who cannot purchase firearms or ammunition.

"Persons over 18 but under 21 may purchase rifles and shotguns for legitimate purposes, but are prohibited from purchasing pistols or revolvers," Sutlick added.

The new Act has no impact on existing local ordinances, according to Sutlick. He stated that the Alcohol and Tobacco Tax Division of the Internal Revenue Service is charged with administering Federal firearms laws.

Dealers in guns and ammunition have new responsibilities in weapons transactions, Sutlick indicated. He urged prospective purchasers of firearms to cooperate fully with gun and ammunition dealers whose businesses are affected by new licensing provisions.

Local Alcohol and Tobacco Tax officers can provide information and answer questions for interested sportsmen. Federally licensed gun dealers are also being provided with detailed explanations of applicable laws.

Figure 8's Start Over On Sunday

Figure 8 racing returns to Gardena's Ascot Park Sunday afternoon, after a three week layoff. Eddie Sauer of Torrance and Run Schuessler of Redondo Beach head a 100-car field in a tripleheader program.

More than 100 laps of criss-cross racing is slated. Sauer and Schuessler are the 1968 Pacific Racing Association figure 8 champions at Ascot.

Arcadia Track Is Open

The 32nd winter season of thoroughbred racing is off and running at Santa Anita Park. The 75-day meeting promises to be the richest in the long and colorful history of the Arcadia track.

The Santa Anita season will offer an estimated \$5,800,000 in purses, with \$1,725,000 of that amount destined for distribution in 45 stakes events.

The stakes program again features renewal of five \$100,000 classic, plus 15 added money contests over Santa Anita's spectacular hillside-infield grass course which spans approximately a mile and three-quarters.

Dates for Santa Anita's quintet of hundred-grounders are:

Saturday, Feb. 1—\$100,000-added Charles H. Strub Stakes for 4-year-olds.

Saturday, March 1—\$100,000 The Santa Margarita, fillies and mares 4-years old and upward, Invitational Handicap.

Saturday, March 8—\$145,000-guaranteed Santa Anita Handicap for 4-year-olds and upward.

Saturday, March 29—\$100,000-added Santa Anita Derby for 3-year-olds.

Saturday, April 5—\$125,000 The San Juan Capistrano for 4-year-olds and upward, Invitational Handicap.

Bart Starr Isn't Ready To Retire

Green Bay Packer quarterback Bart Starr may have missed half of the 1968 season, but he's not thinking of quitting—at least not yet.

"I think I'll be around a while," Starr laughed when discussing a report that he is retiring. "We can't have that guy right two years in a row, can we?"

The report had come from the Minnesota sportscaster who a year ago correctly predicted the retirement of Packer head coach Vince Lombardi.



DENNIS RECTOR

Eight Teams Battle

Among the eight high schools competing in the Torrance Christmas Classic at North High, three Torrance quints have advanced to tonight's semi-finals.

South upset Beverly Hills, 84-70, in the first round yesterday afternoon. West beat Palos Verdes, 65-62, in overtime, while North ran over Long Beach Woodrow Wilson, 89-58.

Fermin Lausen surprised Torrance High with a 62-46 upset to prevent all-Torrance show in the semi-finals.

Mike Cloyd and Barry Simon both scored 25 points in South's win over the Beverly Hills Normans.

North put together a good fast break to overwhelm the Wilson Bruins. The kind of night the Saxons had was typified at the close of the third quarter when little Jim Thomas unleashed a 55-foot swisher as time ran out.

West's Bill Kolodziejczak made 11 of 14 free throws, including five of six in the final five minutes to salvage a sluggish win over P.V.

In tonight's pairings South and Fermin Lausen clash at 7 p.m. and North meets West at 8:30. In afternoon consolation round games Beverly Hills battles Torrance at 3 p.m. and Palos Verdes faces Wilson at 4:30.

The final four games Saturday conclude at 8:30 p.m. with the championship contest between the two twice-victorious finalists.

Pickoff Play Worked for L.A. Dodgers

If a contest figures to be close, oddsmakers will quote a price of 6-5 "and pick 'em." The Dodgers spent hours in spring training on pickoff plays and it paid off handsomely during the season. The pitchers picked off 19 base runners and catcher Tom Haller nabbed five.

The big test came in a spring exhibition game at Lakeland, Fla., against the Detroit Tigers, world champions-to-be. Starter Bill Singer had a 3-0 lead in the third inning when the Tigers filled the bases, bringing up Norm Cash with two outs.

Willie Horton was on first base, Al Kaline on second and Dick McAuliffe on third when Singer looked in for the sign from Haller. Singer whirled, threw to second and caught Kaline napping, and the Dodgers went on to win 5-0.

It was only an exhibition game, but it set up a highly effective defensive weapon for the season.

Don Drysdale led Dodger pitchers with seven pickoffs, six of them at first base. Singer, the runnerup with five, picked off two runners at second. Claude Osteen and Mike Kekich each picked off two. John Purdin, Jim Brewer and Mudcat Grant accounted for the other three.

Haller caught three runners off first base, two off second, and threw out 45 per cent of runners attempting to steal. The Dodger team total for catching would-be thieves was 44 per cent. Haller, whose arm had been questioned by the Giants, had 43 per cent success at second base, 57 per cent at third.